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Building & Highway Material Testing Laboratory
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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Cube/2018-19 19.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	19.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.02.2019	19.03.2019	8.110	489.6	21.76
2	19.02.2019	19.03.2019	8.225	515.4	22.91
3	19.02.2019	19.03.2019	8.393	528.9	23.51

*Information is furnished by the Customer/Representative.

Note:

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Cube/2018-19 20.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	20.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2019	20.03.2019	8.170	498.3	22.15
2	20.02.2019	20.03.2019	8.265	518.9	23.06
3	20.02.2019	20.03.2019	8.390	525.4	23.35

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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Cube/2018-19 20.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	20.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2019	20.03.2019	8.110	515.5	22.91
2	20.02.2019	20.03.2019	8.235	525.3	23.35
3	20.02.2019	20.03.2019	8.393	534.6	23.76

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2019	20.03.2019	8.099	474.5	21.09
2	20.02.2019	20.03.2019	8.195	484.6	21.54
3	20.02.2019	20.03.2019	8.228	513.3	22.81

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Bangalore-560079.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Cube/2018-19 20.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28th day
Sample Received on	:	20.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2019	20.03.2019	8.197	375.8	16.70
2	20.02.2019	20.03.2019	8.264	385.9	17.15
3	20.02.2019	20.03.2019	8.389	399.8	17.77

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Basaveshwaranagar,
Bangalore-560079.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Precast slab/2018-19 23.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	21.02.2019
Date of Testing	:	23.02.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	30.25	15.41	16.64	17.43	21.79
2	50.00	81.00	0.403	2533.90	1.62	0.959	34.65	17.65	19.06	18.28	22.85
3	50.00	80.00	0.406	2584.68	1.60	0.957	33.95	17.29	18.67	17.87	22.33

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Basaveshwaranagar,
Bangalore-560079.

Asst. Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Precast slab/2018-19 23.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Precast slab (250mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	21.02.2019
Date of Testing	:	23.02.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.416	2583.74	1.64	0.961	30.20	15.38	16.61	17.28	21.60
2	50.00	85.00	0.419	2510.53	1.70	0.968	33.35	16.99	18.34	17.75	22.19
3	50.00	83.00	0.420	2577.16	1.66	0.963	35.65	18.16	19.61	18.89	23.61

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/CEMENT/2018-19 Date: 10.02.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of Work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Cement
Sample Received on	:	08.02.2019
Period of Testing	:	08.02.2019 to 10.02.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	365 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
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Basaveshwaranagar,
Bangalore-560079

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/SAND-Gradation/2018-19 10.02.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of Work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	08.02.2019
Date of Testing	:	10.02.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.50	90-100	90-100	90-100	95-100
2.36	82.20	60-95	75-100	85-100	95-100
1.18	60.90	30-70	55-90	75-100	90-100
600 Micron	39.00	15-34	35-59	60-79	80-100
300 Micron	19.80	5-20	8-30	12-40	15-50
150 Micron	6.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Pooja K.L.

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23/14, 7th Cross, 3rd Stage,
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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/AGG/GR/2018-19 10.02.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
*** Name of Work**	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	08.02.2019
Date of Testing	:	10.02.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.22	95-100	85-100
20	40.30	30-70	0-20
10	15.54	10-35	0-5
4.75	4.44	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
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Bangalore-560079.

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Assistant Executive Engineer,

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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/AGG/GR/2018-19 10.02.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of Work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	08.02.2019
Date of Testing	:	10.02.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.22	95-100	85-100
10	37.42	25-55	0-20
4.75	4.96	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

****

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL-TECH CONSULTANTS AND ENGINEERS

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/LG/W.No.08/Steel/2018-19 10.02.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	10.02.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.1	O.K	O.K

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
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Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/LG/W.No.08/Steel/2018-19 10.02.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	10.02.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.3	O.K	O.K

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Job No.: CTCE/BBMP/LG/W.No.08/CSR-02/879/Cube/2018-19 18.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Improvements of roads and drains at Bhadrappa Layout at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2019	18.03.2019	8.169	485.3	21.57
2	18.02.2019	18.03.2019	8.208	510.3	22.68
3	18.02.2019	18.03.2019	8.320	526.6	23.40

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23/14, 7th Cross, 3rd Stage,
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Basaveshwaranagar,
Bangalore-560079.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Technical Reference	:	IS: 516-1959 (RA-2013)
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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2019	18.03.2019	8.338	510.3	22.68
2	18.02.2019	18.03.2019	8.452	522.4	23.22
3	18.02.2019	18.03.2019	8.290	508.9	22.62

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day.
Sample Received on	:	18.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2019	18.03.2019	8.150	474.5	21.09
2	18.02.2019	18.03.2019	8.244	485.6	21.58
3	18.02.2019	18.03.2019	8.335	515.6	22.92

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Asst. Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
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* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.02.2019	19.03.2019	8.105	480.6	21.36
2	19.02.2019	19.03.2019	8.208	503.5	22.38
3	19.02.2019	19.03.2019	8.335	513.6	22.83

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.02.2019	19.03.2019	8.338	474.0	21.07
2	19.02.2019	19.03.2019	8.403	485.6	21.58
3	19.02.2019	19.03.2019	8.298	515.3	22.90

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